



LNP™ STAT-KON™ Compound Lexan_LCF1506

Americas: COMMERCIAL

LNP STAT-KON LEXAN_LC1500N compound is a 15% carbon fiber, 6% PTFE reinforced polycarbonate.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1130	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1130	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.1	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1630	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 2.6 mm/min, 100 mm span	1570	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	92500	kgf/cm ²	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	85800	kgf/cm ²	ASTM D 790
K-factor xE-10, PV=2000 psi-fpm vs Steel	1000	-	SABIC Method
Coefficient of Friction on steel, Static	0.41	-	ASTM D 1894
Coefficient of Friction on steel, Kinetic	0.19	-	ASTM D 1894
IMPACT			
Izod Impact, unnotched, 23°C	28	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	119	cm-kgf	ASTM D 3763
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
HDT, 0.45 MPa, 6.4 mm, unannealed	144	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	139	°C	ASTM D 648
Relative Temp Index, Elec	80	°C	UL 746B
Relative Temp Index, Mech w/impact	80	°C	UL 746B
Relative Temp Index, Mech w/o impact	80	°C	UL 746B
PHYSICAL			
Specific Gravity	1.31	-	ASTM D 792



LNP™ STAT-KON™ Compound Lexan_LCF1506

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 3.2 mm (5)	0.05 - 0.15	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm (5)	0.2 - 0.3	%	SABIC Method
ELECTRICAL			
Surface Resistivity	1.E+04	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.01	< seconds	FTMS101B
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.49	mm	UL 94



LNP™ STAT-KON™ Compound Lexan_LCF1506

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	48	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	290 - 315	°C
Nozzle Temperature	290 - 315	°C
Front - Zone 3 Temperature	290 - 315	°C
Middle - Zone 2 Temperature	280 - 305	°C
Rear - Zone 1 Temperature	275 - 295	°C
Mold Temperature	70 - 105	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm